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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/753,343	12/29/2000	Jin Li	2069.009900	2045

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EXAMINER

HAROLD, JEFFEREY F

ART UNIT PAPER NUMBER

2646

DATE MAILED: 03/09/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

09/753,343

Applicant(s)

LI, JIN

Examiner

Jefferey F. Harold

Art Unit

2646

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 17 January 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-30 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1,2,4,5,9-15,19-22 and 24-26 is/are rejected.
- 7) ☒ Claim(s) 3,6-8,16-18,23 and 27-30 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

1. ***Claims 1, 2, 4, 5, 9-15, 19-22, and 24-26*** are rejected under 35 U.S.C. 102(b) as being anticipated by Zhou (United States Patent 6,219,417).

Regarding **claim 1**, Zhou discloses ring trip detection in a communication system. In addition Zhou discloses a method comprising: transmitting a signal having at least a portion of the transmitted signal from the subscriber line; receiving at least a portion of the transmitted signal from the subscriber line; determining at least a portion of a period of the AC component based on the received signal; and performing a function of a line card in response to determining at least the portion of the period of the AC component; as disclosed at column 5, lines 6-35; column 9, lines 11-49 and exhibited in figures 3-7.

Regarding **claim 2**, Zhou discloses everything claimed as applied above (see claim 1), in addition, Zhou discloses wherein the signal is a ringing signal and wherein performing the function includes performing ring-trip detection, as disclosed at column 5, lines 6-35; column 9, lines 11-49 and exhibited in figures 3-7.

Regarding **claim 4**, Zhou discloses everything claimed as applied above (see claim 1), in addition Zhou discloses wherein determining at least the portion of the

period includes determining at least one zero crossing of the AC component, as disclosed at column 5, lines 6-35; column 9, lines 11-49 and exhibited in figures 3-7.

Regarding **claim 5**, Zhou discloses a method comprising transmitting a ringing signal, which reads on a signal having at least one of an AC component and a DC component, to a subscriber line; receiving at least a portion of the transmitted signal from the subscriber line; filtering the DC component from the received signal; determining a value proportional to a power of the AC component of the received signal over at least a portion of a period of the AC component; and performing a function of a line card in response to determining the value proportional to the power of the AC component, as disclosed at column 5, line 6 through column 6, line 9 and exhibited in figures 3-7.

Regarding **claim 9**, Zhou discloses everything claimed as applied above (see claim 5), in addition, Zhou discloses wherein the signal is a ringing signal and wherein performing the function includes performing ring trip detection, as disclosed at column 5, lines 6-35; column 9, lines 11-49 and exhibited in figures 3-7.

Regarding **claim 10**, Zhou discloses everything claimed as applied above (see claim 5), in addition, Zhou discloses wherein the signal is a fault detection signal and wherein performing the function includes performing AC-fault detection, as disclosed at column 10, line 21-59 and exhibited in figures 3-7.

Regarding **claims 11-15, 19-22, and 24-26**, are interpreted and thus rejected for the reasons set forth above in the rejection of claims 1, 2, 4, 5, 9 and 10.

***Allowable Subject Matter***

2. ***Claims 3, 6-8, 16-18, 23 and 27-30*** are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

***Response to Arguments***

3. Applicant's arguments with respect to claims 1-26 have been considered but are moot in view of the new ground(s) of rejection.

**Conclusion**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jefferey F. Harold whose telephone number is 571-272-7519. The examiner can normally be reached on Monday - Friday 9 am - 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sinh H. Tran can be reached on 571-272-7564. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



JFH  
March 3, 2006



Jefferey F Harold  
Primary Examiner  
Art Unit 2646